

$$\frac{-32a^2b}{60ab^2}$$

$$\frac{3}{4} + \frac{5}{8}$$

$$\frac{-3}{4a} + \frac{5}{8b}$$

$$\frac{3a}{4} + \frac{5a}{8}$$

.

Warm-up:

If there were 48 students going on the Riverside Fall Field Trip next year, how many different ways could we divide them into activity groups?

1-48 3-16 6-8
2-24 4-12

You have just listed all of the FACTORS of 48.

Prime Number:#s which have exactly 2 factors,
1 and itself.**Composite Number:**

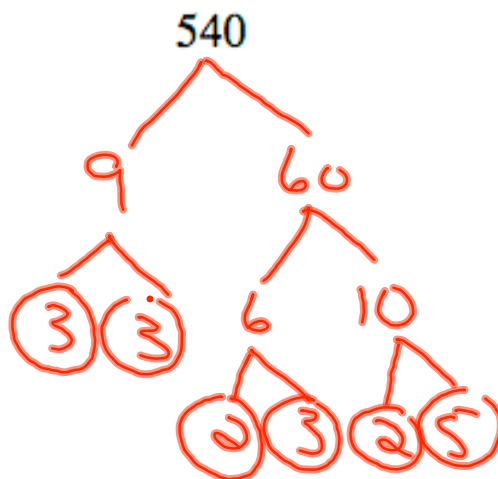
#s that have more than 2 factors

Circle the prime numbers, put a square around composite numbers.

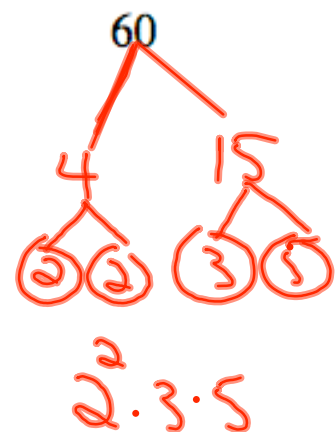


Prime Factorization:

3, 3, 3, 2, 5, 2
 $3^3 \times 2^2 \times 5^1$



$3^3 \cdot 2^2 \cdot 5$



$2^2 \cdot 3 \cdot 5$

MONOMIAL - product of numbers, variables, or both

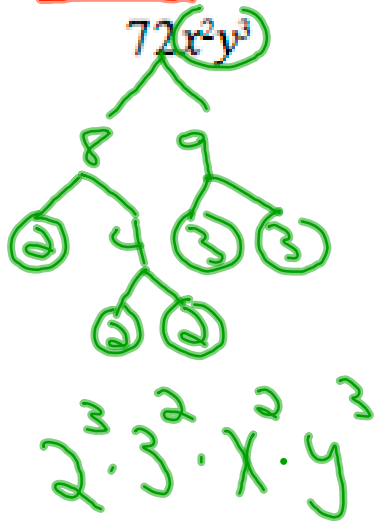


Diagram illustrating the incorrect representation of a monomial as a sum:

The expression $72x^2 + y^3$ is shown, crossed out with a large green 'X'. Below it, the expression $72x^2 \cdot y^3$ is also shown, crossed out with a large green 'X', indicating that a monomial is not a sum or a product of separate terms.

 <http://illuminations.nctm.org/activitydetail.aspx?ID=12>

2, 3, 5, 9, 10

6 - divis.ble by 2 and 3

4 - if the last 2 digits are divisible
by 4

2,803,148
2,803,100

